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# Belfort

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Multifuel stove

**Model : 134 04 11**

Output : 4,5 kW

DIN EN 13240 : 2005-10



Description of the appliance

Installation instructions

Operating instructions

Spare parts

Warranty certificate

Document n° 1174-12

19/09/2012



**Technical manual**

to be saved

by the user

for future reference

**BOUTIQUES DU FEU**

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Subject to modifications

## USER MANUAL FOR STOVES WITHOUT BOILERS

### SUPPLEMENTARY INSTALLATION INSTRUCTIONS FOR THE UK MARKET TO BE READ IN CONJUNCTION WITH THOSE IN THE INSTRUCTION BOOKLET

#### READ THE INSTRUCTION BOOKLET AND THESE SUPPLEMENTARY INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

These instructions together with those in the instruction booklet cover the basic principles to ensure the satisfactory installation of the stove, although detail may need slight modification to suit particular local site conditions.

In all cases the installation must comply with current Building Regulations, Local Authority Byelaws and other specifications or regulations as they affect the installation of the stove. It should be noted that the Building Regulations requirements may be met by adopting the relevant recommendations given in British Standards BS 8303, BS EN 15287-1:2007 as an alternative means to achieve an equivalent level of performance to that obtained following the guidance given in Approved Document J.

Should any conflict apply between these instructions and the original manufacturers instructions then the most stringent advice must apply.

Please note that it is a legal requirement under England and Wales Building Regulations that the installation of the stove is either carried out under Local Authority Building Control approval or is installed by a Competent Person registered with a Government approved Competent Persons Scheme. HETAS Ltd operate such a Scheme and a listing of their Registered Competent Persons can be found on their website at [www.hetas.co.uk](http://www.hetas.co.uk).

#### CO Alarms:-

Building regulations require that when ever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling a carbon monoxide alarm must be fitted in the same room as the appliance. Further guidance on the installation of the carbon monoxide alarm is available in BS EN 50292:2002 and from the alarm manufacturer's instructions. Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance and chimney system.

## HEALTH AND SAFETY PRECAUTIONS

Special care must be taken when installing the stove such that the requirements of the Health and Safety at Work Act are met.

#### Handling

Adequate facilities must be available for loading, unloading and site handling.

#### Fire Cement

Some types of fire cement are caustic and should not be allowed to come into contact with the skin. In case of contact wash immediately with plenty of water.

#### Asbestos

This stove contains no asbestos. If there is a possibility of disturbing any asbestos in the course of installation then please seek specialist guidance and use appropriate protective equipment.

### **Metal Parts**

When installing or servicing this stove care should be taken to avoid the possibility of personal injury.

## **STOVE PERFORMANCE**

Refer to the manufacturer's main instruction manual for details of the stove's performance.

## **PREPARATORY WORK AND SAFETY CHECKS**

### **IMPORTANT WARNING**

This stove must not be installed into a chimney that serves any other heating appliance.

There must not be an extractor fan fitted in the same room as the stove as this can cause the stove to emit fumes into the room.

### **Chimney**

In order for the stove to perform satisfactorily the chimney height must be sufficient to ensure an adequate draught of approximately 15 Pa so as to clear the products of combustion and prevent smoke problems into the room.

NOTE: A chimney height of not less than 4.5 metres measured vertically from the outlet of the stove to the top of the chimney should be satisfactory. Alternatively the calculation procedure given in EN 13384-1 may be used as the basis for deciding whether a particular chimney design will provide sufficient draught. BS EN 15287-1:2007 gives additional details.

The outlet from the chimney should be above the roof of the building in accordance with the provisions of Building Regulations Approved Document J.

If installation is into an existing chimney then it must be sound and have no cracks or other faults which might allow fumes into the house. Older properties, especially, may have chimney faults or the cross section may be too large i.e. more than 230 mm x 230 mm. Remedial action should be taken, if required, seeking expert advice, if necessary. If it is found necessary to line the chimney then a flue liner suitable for solid fuel must be used in accordance with Building Regulations Approved Document J.

Any existing chimney must be clear of obstruction and have been swept clean immediately before installation of the stove. If the stove is fitted in place of an open fire then the chimney should be swept one month after installation to clear any soot falls which may have occurred due to the difference in combustion between the stove and the open fire.

If there is no existing chimney then any new system must be to the designation described above and in accordance with Building Regulations Approved Document J.

A single wall metal fluepipe is suitable for connecting the stove to the chimney but is not suitable for use as the complete chimney. The chimney and connecting fluepipe must have a minimum diameter of 150 mm and its dimension should be not less than the size of the outlet socket of the stove.

Any bend in the chimney or connecting fluepipe should not exceed 45°. 90° bends should not be used.

Combustible material should not be located where the heat dissipating through the walls of fireplaces or flues could ignite it. Therefore when installing the stove in the presence of combustible materials due account must be taken of the guidance on the separation of combustible material given in Building Regulations Approved Document J and also in these stove instructions.

If it is found that there is excessive draught in the chimney then a draught stabiliser should be fitted. Fitting of a draught stabiliser will affect the requirement for the permanent air supply into the room in which the stove is fitted in accordance with Approved Document J (see also combustion air supply).

Adequate provision e.g. easily accessible soot door or doors must be provided for sweeping the chimney and connecting fluepipe where it is not intended for the chimney to be swept through the appliance.

## Hearth

The hearth should be level and able to accommodate the weight of the stove and its chimney if the chimney is not independently supported. The weight of the stove is indicated in the brochure.

The stove should preferably be installed on a non-combustible hearth of a size and construction that is in accordance with the provisions of the current Building Regulations Approved Document J.

The clearance distances to combustible material beneath, surrounding or upon the hearth and walls adjacent to the hearth should comply with the guidance on the separation of combustible material given in Building Regulations Approved Document J and also in these stove instructions.

If the stove is to be installed on a combustible floor surface, it must be covered with a non-combustible material at least 12mm thick, in accordance with Building Regulations Approved Document J, to a distance of 30 cm in front of the stove and 15 cm to each side measuring from the door of the combustion chamber.

## Combustion air supply

In order for the stove to perform efficiently and safely there must be an adequate air supply into the room in which the stove is installed to provide combustion air. The provision of air supply to the stove must be in accordance with current Building Regulations Approved Document J. Special attention should be taken in newer build properties where the design air permeability is less than  $5\text{m}^3/\text{h.m}^2$ . Approved Document J gives more information on this. An opening window is not appropriate for this purpose.

**The fitting of an external air kit direct to outside air must not be considered substitute for installing the appliance with a permanently open air vent in compliance with ventilation requirements stated in Approved Document J. Please reference ADJ for further guidance.**

## Connection to chimney

Stoves may have a choice of either a rear or top flue gas connector that allows connection to either a masonry chimney or a prefabricated factory made insulated metal chimney in accordance with their instructions. In some cases it may be necessary to fit an adaptor to increase the diameter of the flue to the minimum required 150 mm section of the chimney or liner. All joints in the connection between the stove and the chimney must be made gastight using fire cement and where necessary fire-proof rope infill. Means should be made for sweeping the entire length of the flue, be that through the appliance or by suitable sweeping hatch in the flue.

## Commissioning and handover

Ensure all parts are fitted in accordance with the instructions.

On completion of the installation allow a suitable period of time for any fire cement and mortar to dry out, before lighting the stove. Once the stove is under fire check all seals for soundness and check that the flue is functioning correctly and that all products of combustion are vented safely to atmosphere via the chimney terminal.

On completion of the installation and commissioning ensure that the operating instructions for the stove are left with the customer. Ensure to advise the customer on the correct use of the appliance and warn them to use only the recommended fuel for the stove.

Advise the user what to do should smoke or fumes be emitted from the stove. The customer should be warned to use a fireguard to BS 8423:2002 (Replaces BS 6539) in the presence of children, aged and/or infirm persons.

## HETAS Ltd Approval;

These appliances have been approved by HETAS Ltd as an intermittent operating appliance for burning wood logs only.

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READ THE INSTRUCTION BOOK AND THESE INSTRUCTIONS  
CAREFULLY BEFORE USING THE STOVE

#### WARNING NOTE

Properly installed, operated and maintained this stove will not emit fumes into the dwelling. Occasional fumes from de-ashing and re-fuelling may occur. However, persistent fume emission is potentially dangerous and must not be tolerated. If fume emission does persist, then the following immediate action should be taken: -

- (a) Open doors and windows to ventilate the room and then leave the premises.
- (b) Let the fire go out.
- (c) Check for flue or chimney blockage and clean if required
- (d) Do not attempt to relight the fire until the cause of the fume emission has been identified and corrected. If necessary seek expert advice.

The most common cause of fume emission is flueway or chimney blockage. For your own safety these must be kept clean at all times.

#### IMPORTANT NOTES

##### General

Before lighting the stove check with the installer that the installation work and commissioning checks described above have been carried out correctly and that the chimney has been swept clean, is sound and free from any obstructions. As part of the stoves' commissioning and handover the installer should have shown you how to operate the stove correctly.

##### CO Alarm

Your installer should have fitted a CO alarm in the same room as the appliance. If the alarm sounds unexpectedly, follow the instructions given under "Warning Note" above.

##### Air Controls

Manually operated air control can be managed by adjusting the air control valve to increase/decrease the air flow to the stove.

##### Use of fireguard

When using the stove in situations where children, aged and/or infirm persons are present a fireguard must be used to prevent accidental contact with the stove. The fireguard should be manufactured in accordance with BS 8423:2002.

##### Chimney cleaning

The chimney should be swept at least twice a year. It is important that the flue connection and chimney are swept prior to lighting up after a prolonged shutdown period.

If the stove is fitted in place of an open fire then the chimney will require sweeping after a month of continuous operation. This is a precaution to ensure that any "softer" deposits left from the open fire usage have not been loosened by the higher flue temperatures generated by the closed stove.



In situations where it is not possible to sweep through the stove the installer will have provided alternative means, such as a soot door. After sweeping the chimney the stove flue outlet and the flue pipe connecting the stove to the chimney must be cleaned with a flue brush.

### **Periods of Prolonged Non-Use**

If the stove is to be left unused for a prolonged period of time then it should be given a thorough clean to remove ash and unburned fuel residues. To enable a good flow of air through the appliance to reduce condensation and subsequent damage, leave the air controls fully open.

### **Extractor fan**

There must not be an extractor fan fitted in the same room as the stove as this can cause the stove to emit smoke and fumes into the room.

### **Aerosol sprays**

Do not use an aerosol spray on or near the stove when it is alight.

### **Use of operating tools**

Always use the operating tools provided when handling parts likely to be hot when the stove is in use.

### **Chimney Fires**

If the chimney is thoroughly and regularly swept, chimney fires should not occur. However, if a chimney fire does occur turn off the stove immediately and isolate the mains electricity supply (if applicable), and tightly close the doors of the stove. This should cause the chimney fire to go out. If the chimney fire does not go out when the above action is taken then the fire brigade should be called immediately. Do not relight the stove until the chimney and flueway have been cleaned and examined by a professional.

### **Permanent air vent**

The stove requires a permanent and adequate air supply in order for it to operate safely and efficiently. In accordance with current Building Regulations the installer may have fitted a permanent air supply vent into the room in which the stove is installed to provide combustion air. This air vent should not under any circumstances be shut off or sealed.

## **USER OPERATING INSTRUCTIONS**

Please read the important notices given above before referring to the main instruction book for detailed operating instructions.

### **Recommended fuels:**

Please note that HETAS Ltd Appliance Approval only covers the use of wood logs on this appliance. HETAS Ltd Approval does not cover the use of other fuels either alone or mixed with the recommended fuels listed above, nor does it cover instructions for the use of other fuels. The stoves have a refuelling interval of 0.75h to achieve the nominal rated output. Wood logs should be seasoned with a moisture content of around 20%.

### **De-Ashing:**

It is important that you empty the ash pan at regular intervals and dispose of ash in a safe and environmentally friendly manner. Always use the operating tools provided and replace the ashpit cover correctly. **DO NOT allow ash to build up underneath the bed as this may cause damage to the grate.**

### **Spare Parts:**

For more information on obtaining spare parts, please contact the manufacturer directly using the contact in the main stove brochure.

FRANCO BELGE congratulates you on your choice.  
FRANCO BELGE, guarantees the quality of its appliances and is committed to meet its customers' needs.  
FRANCO BELGE, which can boast a 80-year experience in the industry of heating devices, uses state-of-the-art technologies to design and manufacture its whole range of products.  
This document contains instructions on how to install your appliance and make full use of its functions, both for your comfort and safety.

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This appliance is meant to burn wood or coal safely

## Warning

An incorrectly installed wood stove can cause serious accidents.

We recommend that you engage the services of a professional engineer for its installation and the regular maintenance requirements

# 1. Product information

## 1.1. Package

- 1 package : Stove complete.

## 1.2. Optional equipment

- Set of 4 long legs.

## 1.3. General characteristics

<b>FUEL : WOOD</b>	
Chimney draught required . . . . . Pa	12
Heated volume . . . . . m <sup>3</sup>	130
Grate dimensions :	
- width . . . . . mm	270
- depth . . . . . mm	200
- usable height . . . . . mm	240
Max. log size	
- Length maxi . . . . . cm	25
Ash pan capacity . . . . . litres	3
Net weight . . . . . kg	77
Flue gas temperature . . . . . °C	290
- Nominal output . . . . . kW	4,5
- Efficiency . . . . . %	74,3
- Co (13% O <sub>2</sub> ) . . . . . %	0,36
- Flue gas mass flow . . . . . g/s	5
- Fuel rate . . . . . kg/h	1,5
<b>FUEL : ANTHRACITE (SMOKELESS-FUEL)</b>	
Tested with fuel brand name “phurnacite” entering in category A, table B2 from the standard EN 13240	
- Nominal Heat Output . . . . . kW	5,6
- Chimney draught required . . . . . Pa	12

- Flue gas temperature . . . . . °C	339
- Flue gas mass flow . . . . . g/s	5,4
- Efficiency . . . . . %	73,6
- Co (13% O <sub>2</sub> ) . . . . . %	0,14
- Fuel rate . . . . . kg/h	0,9

## 1.4. Description

Multifuel stove.

In conformity with DIN EN 13240 : 2005-10.

- Intermittent-burning heating appliance.
- Wood burnt on grate.
- Wood and anthracite burning stove.
- Close cast iron firebox.
- Removable appliance, to be installed near a wall.
- Detachable flue spigot for rear or top chimney connection.
- Detachable top for easy handling and cleaning (rear smoke exit only).
- Adjustable air controls for controlling the burning rate.
- Spin wheel for lighting.
- Large ash-pan.
- Grate shaker control.

## 1.5. Principle of operation

The “ Belfort ” is designed for operation with the door closed.

Heat is mainly diffused by radiation, through the window and body of the appliance.

Combustion occurs on the grate, with draught entry through the top of the combustion chamber when using wood and under the grate when using smokeless fuels.

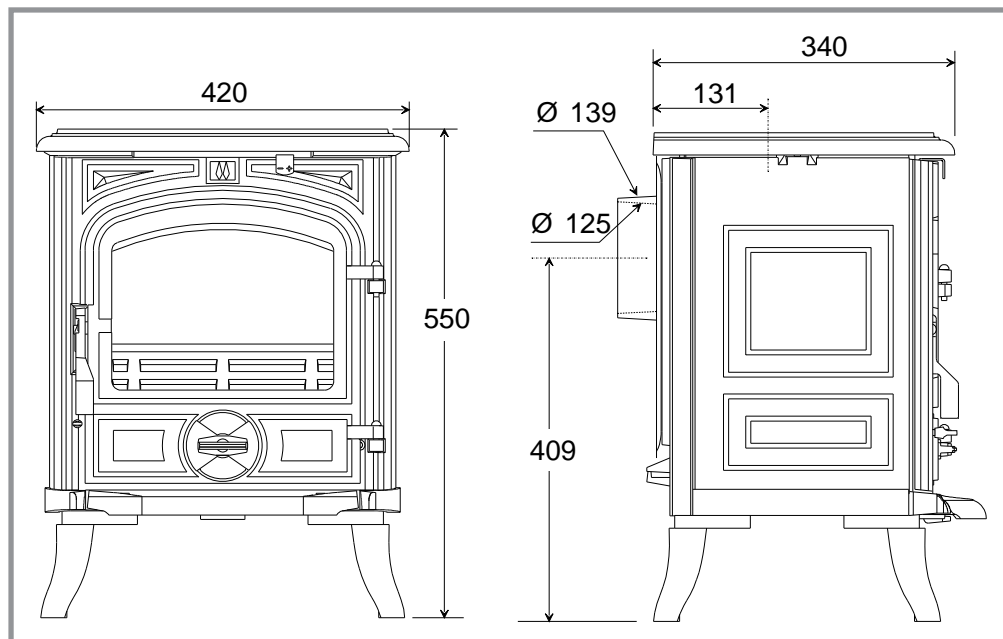


Figure 1 - Dimensions in mm



## 2. Installation instructions

### 2.1. Warning to the user

**An incorrectly installed heating appliance can cause serious accidents** (chimney fires, burning of plastic insulation materials, in partition walls, etc.).

This stove is exempted by DEFRA for burning wood logs in UK Smoke Control Areas (SCA). DEFRA exemption is dependent upon the appliance being fitted with a mechanical stop to prevent closure of the secondary air control beyond the 25% open position. You should check that this stop mechanism is fitted before installation of the stove and certainly before using the stove in a SCA to burn wood logs. If the stop mechanism is fitted then the minimum chimney flue diameter can be 125 mm but if the stop mechanism is not fitted then the stove is not exempted and the minimum chimney flue diameter is 150 mm in accordance with Approved Document J of the building regulations.

The insulation of both the appliance and the exhaust gas pipe has to be reinforced and done according to the Standards and the Building Regulations for safety reasons. The installation must be carried out according to the Standards and the Building Regulations.

Failure to respect the mounting instructions leads to engage the responsibility of the one doing the installation.

The manufacturer’s responsibility shall be limited to the supply of the appliance.

The installation of the appliance and the flue system must be in accordance with current Building Regulations. Failure to install the appliance with the Building Regulations will lead to the appliance warranty becoming in validated.

### 2.2. Location of the unit

**Ventilation :** For satisfactory appliance operation with a **natural draught**, check that sufficient air for combustion is available in the room. In houses equipped with one VMC (controlled mechanical ventilation), this one aspire and renew the ambient air; in this case, the residence is under slight low pressure and a **non-sealable** external air intake must be installed in addition to the chimney itself, at least 50 cm<sup>2</sup> in section.

**Position of the unit :** For new installations, select a central position within the house, to provide a good heat distribution around the building. The heat distribution towards the other rooms will be made through the communicating doors. These rooms must be at low pressure or fitted with non-adjustable air registers, placed so that they cannot be obstructed, to encourage circulation of the hot air.

**Floor and walls :** make sure there are not combustible or covered with non combustible

material. Otherwise it must be necessary to install a non combustible protection.

There must be a clearance of at least 350 mm at each side (back and sides) of the appliance in accordance with the below recommendations from a non combustible wall. This distance must be extended to a minimum clearance of 400 mm from any combustible material.

If any part of the back or sides of the appliance lies within 350 mm horizontally of the wall, than the wall should be of solid non-combustible construction at least 75 mm thick from level to a level of 300 mm above the top of the appliance and 1200 mm above the hearth.

If however, any part or sides of the appliance lies within 50 mm of the wall, then the wall should be of solid non-combustible construction at least 200 mm thick from floor level to a level of 300 mm above the top of the appliance and 1200 mm above the hearth. Where the hearth itself is at least 150 mm from an adjacent wall. There is no requirement for protection of the wall. It should be noted that these thicknesses of solid non-combustible material can be substituted by thinner material if the same overall level of protection can be achieved.

When using a single wall flue pipe, there must be a clearance (A) of at least three times its diameter (B) from any combustible materials. If the appliance has to be located in an opening, this distance must be extended to a minimum clearance (A) of 450 mm from the pipe or the stove body to any combustible materials.

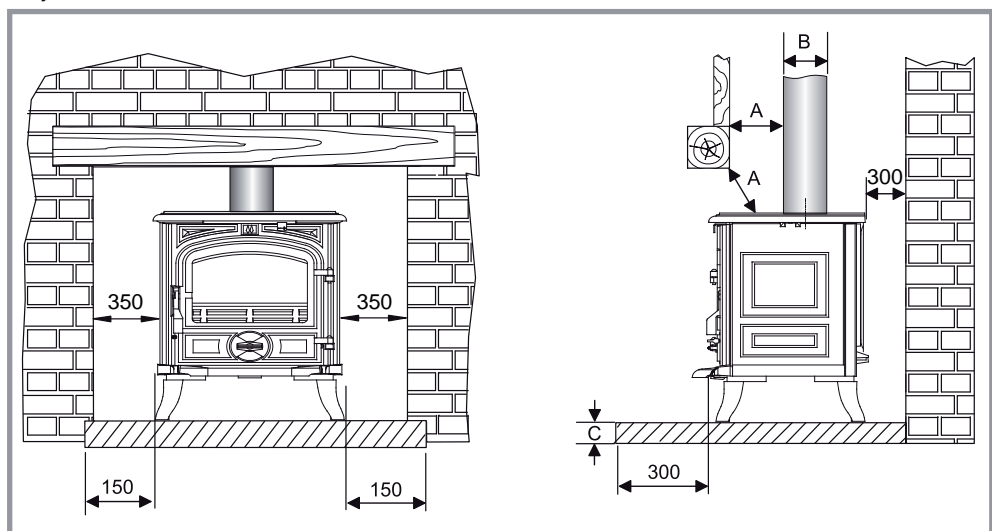
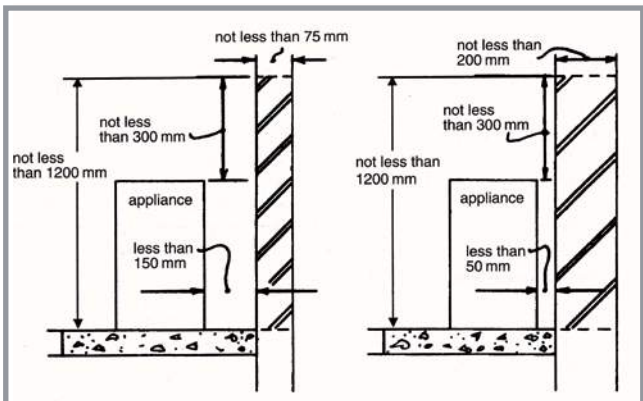


Figure 2 - Clearances

**Hearth** : The appliance must stand on a fireproof hearth.

It is possible to provide a hearth made of non combustible board/sheet material or tiles at least 12 mm thick (C).

Constructional hearths should be constructed of solid non combustible material at least 125 mm thick (including the thickness of any non combustible floor under the hearth).

The hearth must protrude at least 300 mm in front of the stove and 150 mm each side.

Hearths are provided to prevent combustion appliances setting fire to the building fabric and furnishings and to limit the risk of people being accidentally burnt.

Therefore, they should be separated from adjacent combustible materials and should be satisfactorily delineated from surrounding floor finishes (carpets etc.) as follows.

Combustible material should not be placed under a constructional hearth for a solid fuel appliance within a vertical distance of 250 mm from the upper surface of the hearth, unless there is an airspace of at least 50 mm between the combustible material and the underside of the hearth.

Where a superimposed hearth has been placed onto a constructional hearth, combustible material placed on or beside the constructional hearth should not extend under the superimposed hearth by more than 25 mm or closer to the appliance than 150 mm.

Ensure that the hearth (superimposed or constructional) is suitably delineated to discourage combustible floor finishes from being laid too close to the appliance, by marking the edges or providing a change of level.

Position the appliance on the hearth such that combustible material cannot be laid closer to the base of the appliance than :

- (a) At the front, 300 mm if the appliance is an open fire or stove which can, when opened, be operated as an open fire, or 225 mm in any other case.
- (b) At the back and sides, 300 mm or in accordance with the recommendations below which relate to distance from hearth to walls. Please refer to section J of the Building regulations.

When using a single wall flue pipe, there must be a clearance (A) of at least 450 mm from any combustible materials (timber mantel, girder).

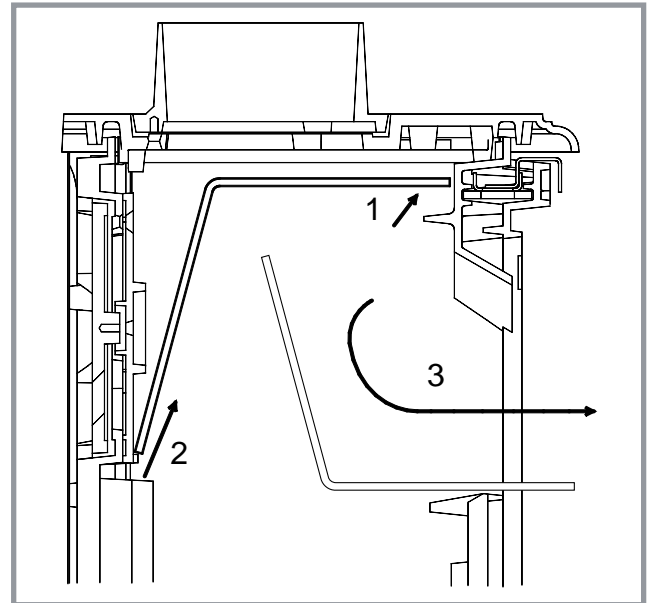


Figure 3 - Removing the flue baffle

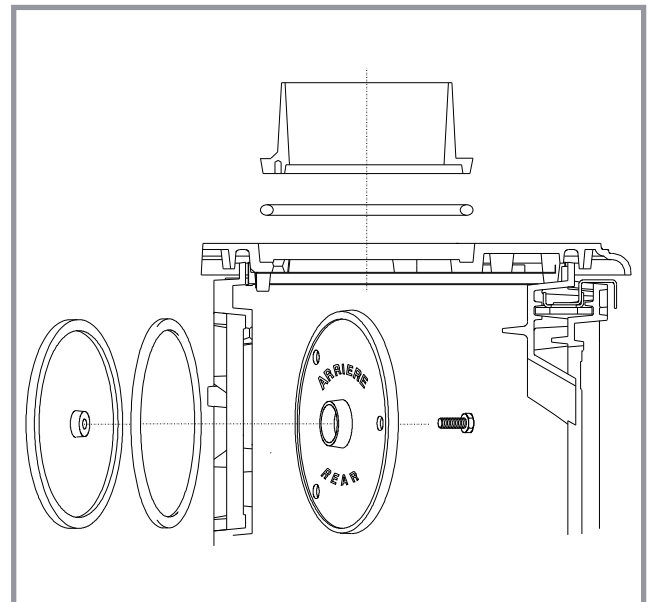


Figure 4 - Smoke exit on the top

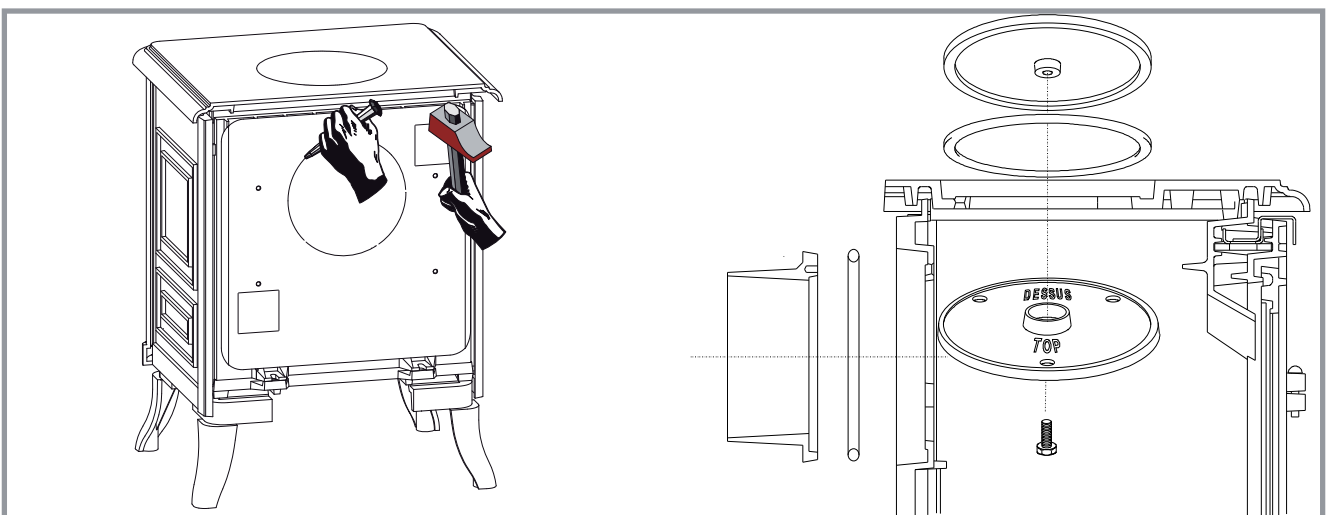
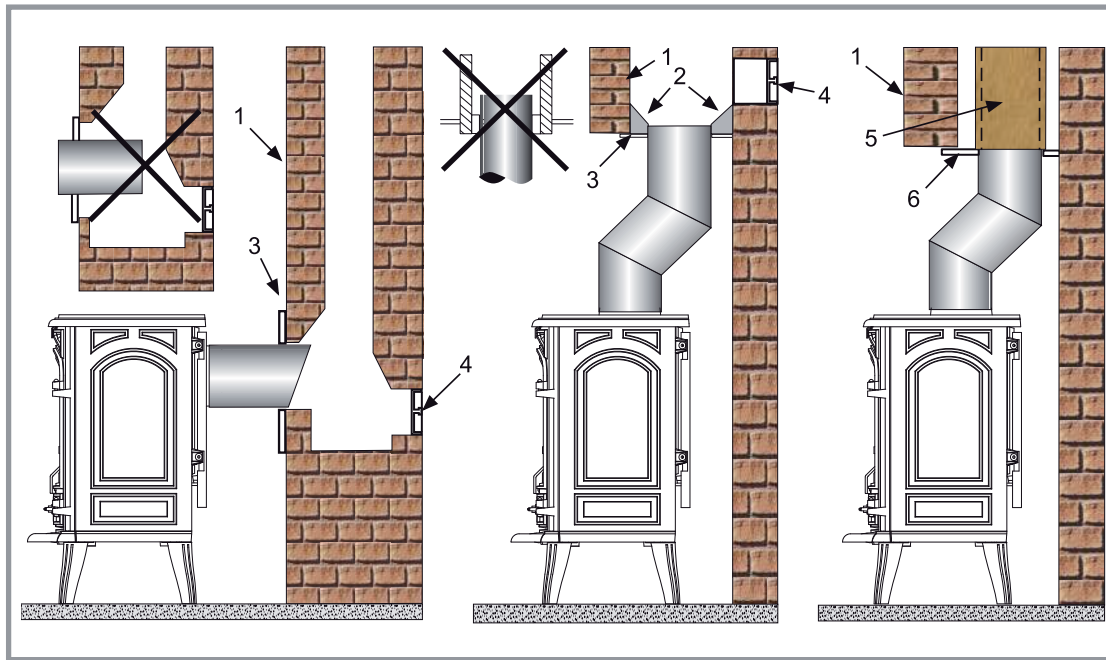


Figure 5 - Smoke exit at rear



**Figure 6 -  
Chimney  
connections**

- 1 - Chimney
- 2 - Funnel-shape fireproof material
- 3 - Non combustible register plate
- 4 - Cleaning access door
- 5 - Liner
- 6 - Non combustible register plate and ventilated air

### 2.3. Flue

The chimney must comply with Current Building Regulations. If in doubt, consult your Dealer or local Building Inspector.

**Existing flue :**

- The flue must be in good condition and must provide sufficient draught.
- The flue must be suitable for the installation of solid fuel burning appliances and comply with Current Building Regulations.
- The flue must be clean. It should be swept to remove soot and dislodge tar deposits.
- The flue must be well insulated. If the flue inner wall surfaces are cold, a good thermal draw is impossible causing condensation problems (tar formation etc) to occur.
- The flue must not be shared with other appliances.
- The chimney must be at least 4.5 m (15 ft high).
- In case of a flat roof or when the roof gradient is lower than 15°, the stack must be 1,2 m (4 feet) high at least.
- If the chimney has any down draught tendency, due to its position in relation to nearby obstacles, then an anti-down draught cowl must be installed on the chimney or the chimney height must be increased.
- If the decompression in the chimney is excessive, a draught stabiliser must be installed.

**Chimney to be built / new flue :**

- The flue must not be supported by the stove.
- Consult a chimney specialist for advice on suitable flue systems for solid fuel appliances.

### 2.4. Assembly of flue spigot and blanking plates

The stove is supplied with a connection flue spigot with an inner diameter of 125 mm or an outer diameter of 139 mm.

#### 2.4.1. Smoke exit on the top (figure 4)

- Remove the internal baffle (rep. 17, page 13).
- Fit the sealing rope in the groove and attach the flue

spigot (rep. 26, page 13) using the three bolts and washers supplied.

- Check that the two blanking plates are fixed to the back wall (rep. 25 & 35, page 13).
- Replace the internal baffle.

#### 2.4.2. Smoke exit at rear (figure 5)

- Remove the internal baffle (rep. 17, page 13) and the rear heat shield (rep. 16, page 13).
- Fix the sealing rope in the groove on the rear and fit the flue spigot, ensuring there is a good seal.
- Fix the sealing rope in the groove on the top and fit the two blanking plates, ensuring there is a good seal.
- Replace the internal baffle.
- Remove the cut-out in the rear heat shield and re-fit.

### 2.5. Chimney connector

The connection to flue must be carried out according to local building regulations.

- The appliance must be installed as close as possible to the chimney.
- Any connection pipe must be suitable for use with solid fuel burning appliances in accordance with Approved Document J of the building regulations.

The connecting pipe must not reduce in diameter at any point to less than the diameter of the outlet of the stove.

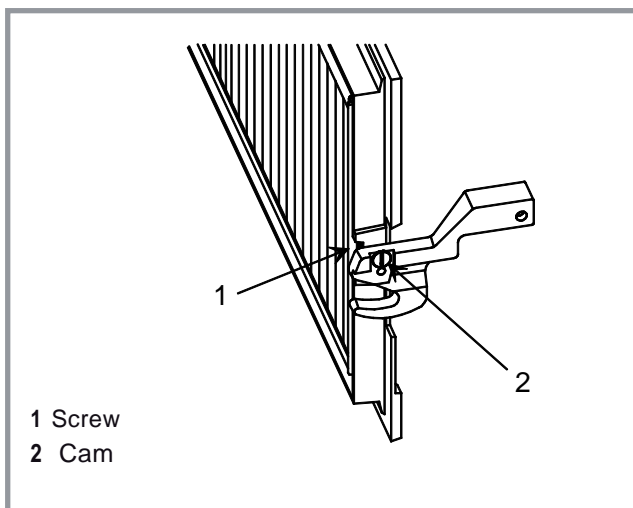
- The connection can be either vertical or horizontal. For horizontal connections, avoid right angle bends.
- The joint between the connection pipe and the stovepipe, and the flue, must be leak tight.
- For the premises equipped with a mechanical controlled ventilation, the airtightness has to prevent the exhauster drawing out the smokes from the exhaust gas pipe.
- The connection pipe and any draught stabiliser must have access for cleaning.
- The spigot should be connected to a minimum of 125 mm flue system and in that case the appliance is capable of burning untreated wood and recommended solid fuels.

## 2.6. Door closing pressure

**Figure 7**

The closing latch rotates around a pressure screw positioned cam.

- Loosen pressure screw 1.
- Turn cam to desired position 2.
- Tighten pressure screw 1.



*Figure 7 - Door closing pressure*

## 2.7. Maintenance of the stove body

- ‡The stove must be regularly cleaned.
- ‡Remove all deposits from the combustion chamber and clean the grate area.
- ‡The vitro ceramic glass can only be cleaned using a soft cloth and stove glass cleaner, available from your Franco Belge Dealer. **DO NOT USE ABRASIVES**
- ‡The vitro ceramic glass resists a temperature of 750°C. If the glass should be broken, it is recommended that only an original factory replacement should be fitted. For enamelled finishes, the stove body can be cleaned using a soft cloth either dry, or slightly damp with a very **mild detergent**. **NEVER CLEAN ENAMEL SURFACES WHILST THE STOVE IS HOT.**

The cast iron body panels of non-enamelled stoves can be cleaned with a proprietary stove cleaner or re-sprayed / touched up using a stove paint. These products are available from your Franco Belge Dealer.

**Caution !** : The appearance of cracks when burning the enamelled units is quite usual and tends to disappear when the appliance is cooling down. It should not be considered as a defect but rather as a patina of the enamel which does not affect its quality nor its service ability.

## 2.8. Pre-utilisation check

Check the condition of the filler seals, that the door closes correctly.

- Check that the glass is not damaged.
- Check that the smoke passages are not obstructed by packaging or removable parts.
- Check that the seals of the smoke-line are in good condition.
- Check that the doors close correctly.
- Check that all removable parts are correctly installed (fuel retainer (fig. 9), oscillating grate (fig. 10), baffle (fig. 3) etc...
- Fit the ash tray, located in the ash pan, between the front legs (rep. 2, fig. 10).

**Note** : if it acts of a ceramics braid, it is consumable and thus brought to be changed by the user.

## 2.9. Maintenance of the Chimney

**Very important !** In order to avoid any incident (chimney fire, etc...), maintenance tasks must be carried out regularly.

If the appliance is regularly used, the chimney should be swept several times per year, together with the stovepipe connection section.

If the chimney catches fire, you must cut off the flue draught, close the doors and windows, hatches and keys and call the Fire Brigade without delay.

**DO NOT OPEN THE DOOR OF THE APPLIANCE  
(OR AIR INLET)  
UNDER ANY CIRCUMSTANCES.**

### 3. Instructions for user

The manufacturer will not be responsible for damages on parts of the appliance due to the use of prohibited fuel or due to an alteration of the appliance or its installation. **Only use replacement parts supplied by the manufacturer.**

**Don't run the stove in mild weather with coal : Under certain circumstances (e.g. fog and repeated thaw) the chimney will not draw sufficiently well and thus be at the origin of asphyxia.**

**Awaiting better weather circumstances, don't use any coal but only wood.**

At the first lighting, the fire must be progressively increased to allow the various parts to expand normally and to dry up.

**Note :** When the fire is lit for the first time, the stove may give off fumes from the new paint. This is normal but ensure the room is well ventilated during the first few hours of operation.

**Warning :** properly installed and operated this appliance will not emit fumes into the dwelling. Occasional fumes from de-ashing and re-fuelling may occur. Persistent fume emission is dangerous and must not be tolerated. If fume emission does persist :

Open doors and windows to ventilate room.  
Let the fire out and dispose of fuel from the appliance.  
Check for flue or chimney blockage, and clean if required. Do not attempt to relight the fire until the cause of the fume emission has been identified and corrected. If necessary seek expert advice.

**Note :** It is recommended to use a fireguard in the presence of children, and also in the presence of old and/or infirm people.

#### 3.1. Fuel

**This appliance is not an incinerator.**

Use hard wood logs, which have been cut for at least two years and stored, under a ventilated shelter.

Use hardwood that have a higher calorific value per cu metre (Yoke-elm, oak, ash, maple, birch, elm, beech, etc.). Large logs must be split and cut to an useful length, before being stored in a sheltered and ventilated place.

**• Recommended fuel :**

The best fuels for use with the Franco Belge “Belfort” are :

Seasoned wood. - hard wood logs that have been cut, split and stored for at least two years with a minimum moisture content of 20 % e.g. oak, beech, elm etc.

Anthracite – dry steam coal fuels as described in type A – table B2 of the Standard – smokeless fuels along with coalite and anthracite.

We do not recommend the use of Homefire on your stove due to the number of glass panels which have been effected by this fuel.

**• Prohibited fuel :**

Any form of housecoal (bituminous coal) or petroleum based fuels.

We do not recommend that unseasoned wood (green wood) is used due to it's high levels of moisture which will produce tar and in turn can cause the insides of the stove and the lining of the chimney to become coated which in turn could lead to a chimney fire.

We do not recommend recovered wood e.g railway sleepers, chipboard, pallets are burned as these have been treated and will product a great deal of pollution to the environment and will overheat the appliance.

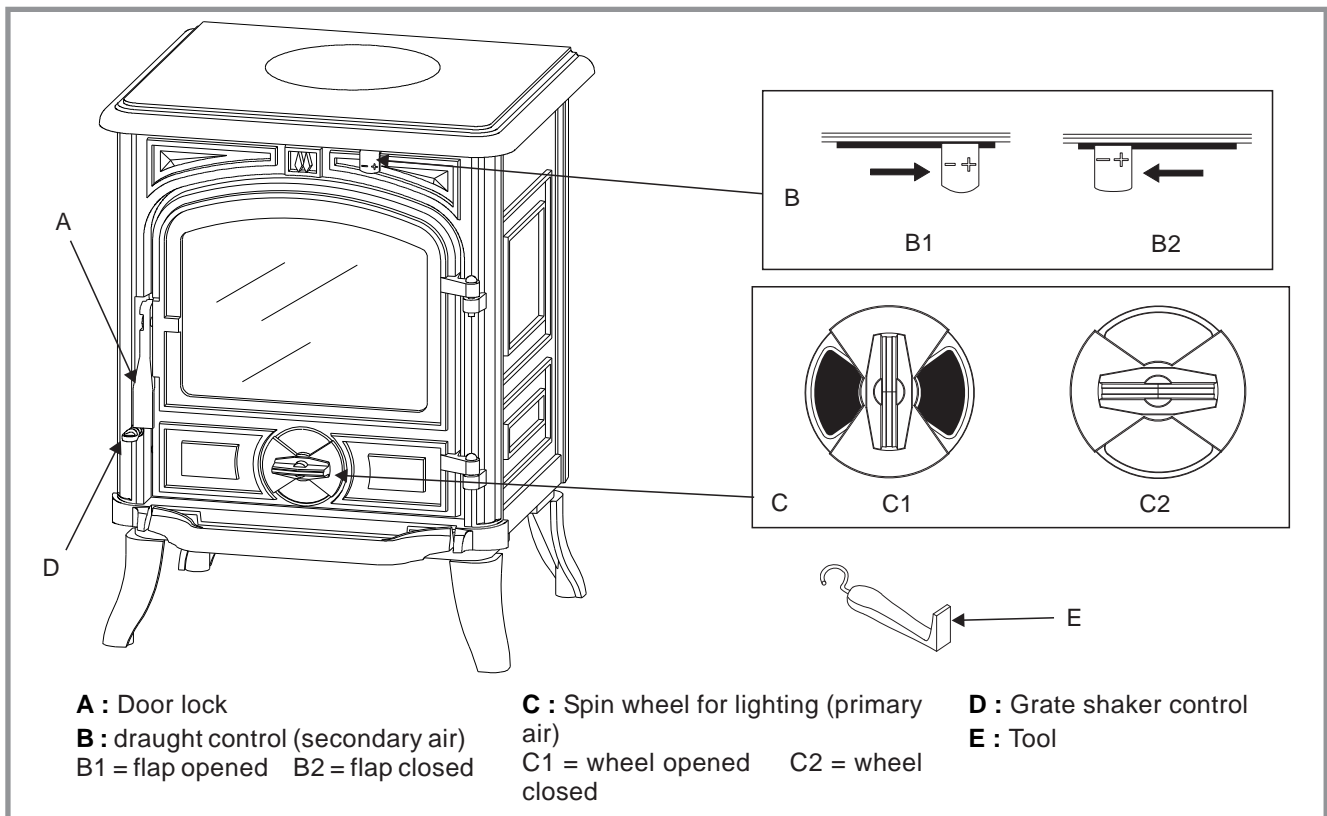


Figure 8 - Operating devices

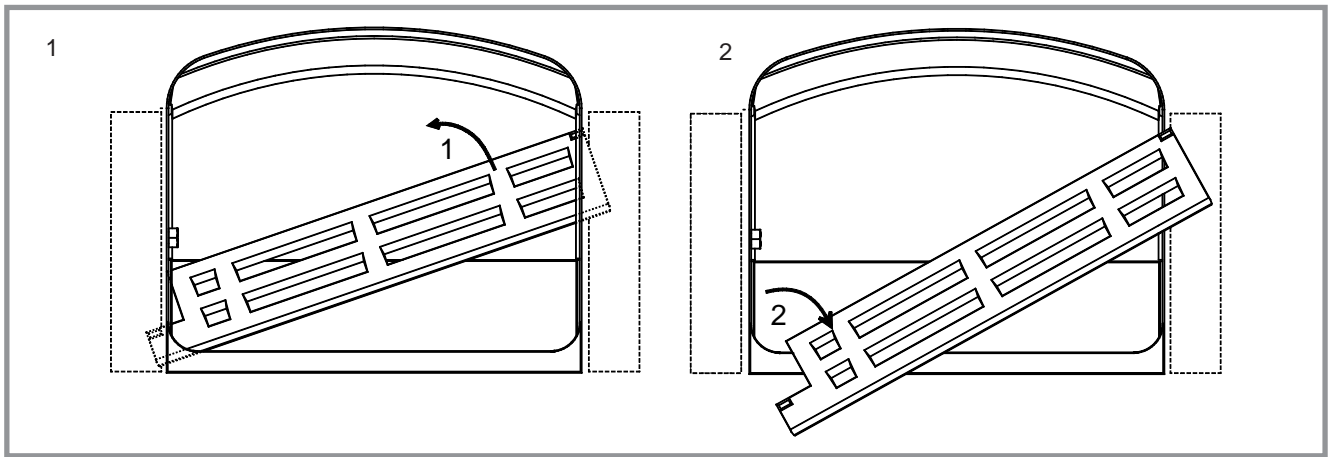


Figure 9 - Removing the fuel retainer

### 3.2. Instructions for use with wood

#### 3.2.1. Lighting

##### Figure 8

- Slide the top air control (rep. B1) to the right. Open the lower spin wheel (rep. C1).
- Lay firelighters or rolled up newspapers on the grate with a reasonable quantity, if necessary, of dry kindling wood. Place 2 or 3 small logs on top.
- Light the newspaper or firelighters using a long taper and close the door.
- When the fire is burning fiercely, add further logs of a diameter up to 10 cm.
- When the stove body is very hot, close the lower spin wheel.
- The burning rate can now be lowered by moving the top air control to the left.
- The airwash system works with the top airslide. When the top airslide is full open the system works at its strongest efficiency.
- The more closed down the airslide is, the less effective the airwash will be (when shut down completely, the airwash system can not function).

#### 3.2.2. Re-fuelling

##### Figure 8

- Slide the top air control (rep. B1) to the right. Open the lower spin wheel (rep. C1).
- Open the glass door and add logs.
- Leave the lower spin wheel open for a few minutes to allow the initial volatiles in the wood to burn.
- Close the lower spin wheel.

### 3.3. Use with smokeless fuel

#### 3.3.1. Lighting

##### Figure 8

- Slide the top air control (rep. B1) to the right. Open the lower spin wheel.

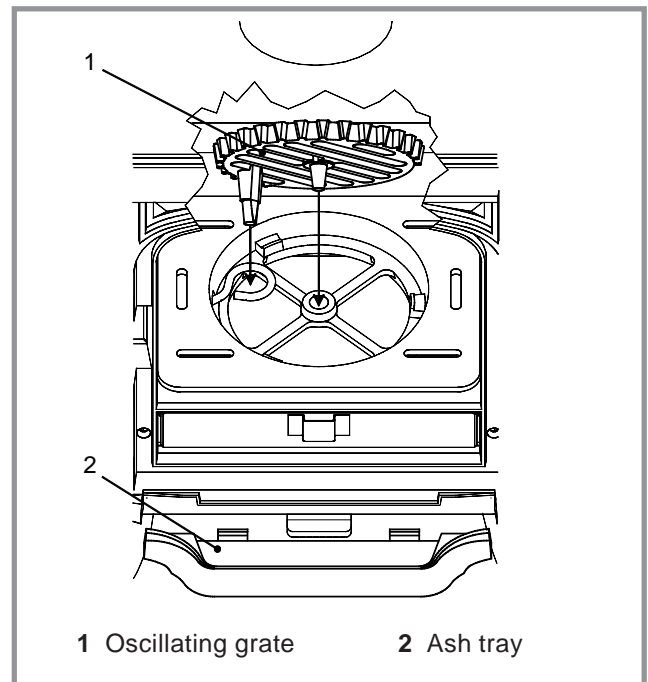


Figure 10 - Mounting the oscillating grate and the ash tray

- Lay firelighters or rolled up newspapers on the grate with a reasonable quantity, if necessary, of dry kindling wood. Place a small quantity of solid fuel on top.
- Light the newspaper or firelighters using a long taper and close the door.
- When the fire is burning fiercely, add further fuel.
- When the stove body is hot, close the top air control by sliding to the left.
- The burning rate can now be adjusted by rotating the lower spin wheel.
- The nominal output is achieved with secondary air closed and primary air (rep. C, figure 8, page 8) opened at 50 %.
- The airwash system works with the top airslide. When the top airslide is full open the system works at its strongest efficiency.
- The more closed down the airslide is, the less effective the airwash will be (when shut down completely, the airwash system can not function).

### 3.3.2. Re-fuelling

- Open the lower spin wheel.
- Open the glass door and add fuel.
- Leave the lower spin wheel open for a few minutes to allow the initial volatiles in the fuel to burn.
- Adjust the lower spin wheel to the desired position.

### 3.4. De-ashing

- It is vital that the ashpan is regularly emptied.
- If the ashes are allowed to build up in the ashpan, these will “sandwich” the grate between two layers of ash and will cause damage and premature wear to the grate.
- It is best to empty the ashpan when the appliance is cold.
- Always remove the ashpan with the tool supplied.
- Dispose of the ashes carefully - there may still be hot embers within the ashes.

### 3.5. Cleaning

It is essential to keep the grate free from a heavy build up of ashes. The Belfort is equipped with a grate riddling device which is used to “shake” ashes off the grate into the ash pan.

Whenever the stove is burning without life when the lower spin wheel is open, use the riddling lever to clear the grate of surplus ashes.

**REMEMBER TO BURN SOLID FUEL CORRECTLY, AIR SHOULD BE ALLOWED TO FLOW FROM THE ASH PIT AREA THROUGH THE GRATE AND THROUGH THE FUEL. IF THE GRATE OR ASH PAN ARE CONGESTED, THE PERFORMANCE WILL BE EFFECTED.**

If burning solid fuel, always empty the ash pan at least once a day or whenever it is full of ashes. Never allow the ashpan to overfill allowing ash to be in contact with the underside of the grate. If this condition is allowed, the grate will wear out pre-maturely.

### 3.6. Maintenance of the chimney

**Very important !** In order to avoid any incident (chimney fire, etc...), maintenance tasks must be carried out regularly.

**If the appliance is regularly used, the chimney should be swept several times per year, together with the stovepipe connection section.**

**If the chimney catches fire, you must cut off the flue draught, close the doors and windows, hatches and keys and call the Fire Brigade without delay.**

**DO NOT OPEN THE DOOR OF THE APPLIANCE  
(OR AIR INLET)  
UNDER ANY CIRCUMSTANCES.**

Chimney condition should be checked at least once per year by a professional engineer.

### 3.7. Maintenance of the stove

- The appliance must be cleaned regularly, together with the connecting pipe and the flue pipe.
- Remove all deposits from the combustion chamber and clean the grate area.
- The glass can be cleaned using a soft cloth dampened with a mix of water and vinegar or a specialist stove glass cleaning solution (obtainable from your local stockist).
- This must only be done when the appliance is cold, **Do not use abrasive cleaners.**
- The vitro ceramic glass resists a temperature of 750°C. If the glass should be broken, it is recommended that only an original factory replacement should be fitted.
- Check that there are no obstructions before relighting after a long period of disuse.
- The appliance must not be used with a flue serving several appliances.
- The baffle plates should be removed regularly and any ash or deposits cleaned away.
- Ashes must not be allowed to build up.
- The door rope seals should be checked annually and replaced when required.
- The grates must be free from any obstructions always ensure there are no pieces of dislodged fuel or embers in between the grate castings.

For enamelled finishes, the stove body can be cleaned using a soft cloth either dry, or slightly damp with a very mild detergent.

**NEVER CLEAN ENAMEL SURFACES  
WHILST THE STOVE IS HOT.**

The cast iron body panels of non-enamelled stoves can be cleaned with a proprietary stove cleaner or re-sprayed / touched up using a stove paint. These products are available from your Franco Belge Dealer.

### 3.8. Recommendations

This room heater is a high heat producing appliance and may cause severe burns if touched on the glass front door, or on top directly over the burner.

**KEEP CHILDREN AWAY.**

**The stove may still be hot even when fire has burnt out.**

### 3.9. Firebricks

When replacing firebricks, the fire must be progressively increased to allow the firebricks to expand normally and to dry up.

### 3.10. Trouble Shooting



: This sign means that you should ask for a qualified engineer to do the work.

<i>Problem</i>	<b>Probable causes</b>	- Action
<i>Fire difficult to start</i> <i>Fire goes out</i>	<b>Wood green, too damp or poor quality.</b>	- Use the recommended fuel.
	<b>Logs are too big.</b>	- To light the fire, use small, very dry twigs. To maintain the fire, use split logs.
	<b>Air starvation.</b>	- Open lower air control (coal) or top air control (wood).
	<b>Insufficient draught.</b> <input checked="" type="checkbox"/>	- Check that the flue is not obstructed, sweep it if necessary - Seek advice from a chimney specialist.
<i>Fire burns too quickly.</i>	<b>Too much draught.</b>	- Ensure that the lower air control is closed (with wood burning) - Partially close the top air control lever.
	<b>Excessive draught.</b> <input checked="" type="checkbox"/>	- Install a draught stabiliser. Consult your Dealer.
	<b>Poor quality wood.</b>	- Do not continuously burn small wood, sticks, bundles, carpentry offcuts (plywood, pallets), etc.
<i>Smokes when lighting up.</i>	<b>Flue duct is cold.</b>	- Burn paper and kindling wood to increase heat.
	<b>Room is in decompression.</b>	- In houses equipped with mechanical ventilation, partly open a window until the fire is well established.
<i>Smokes while burning.</i>	<b>Draught is insufficient.</b> <input checked="" type="checkbox"/>	- Consult a chimney specialist. - Check that the flue is not obstructed, sweep if necessary.
	<b>Down draught.</b> <input checked="" type="checkbox"/>	- Install an anti-down draught cowl. Consult your Dealer.
	<b>Room is in decompression.</b> <input checked="" type="checkbox"/>	- In houses equipped with Mechanical Ventilation, an outside air intake must be installed for the chimney.
<i>Low heat output.</i>	<b>Incorrect Fuels.</b>	- Use the recommended fuel.



# 4. Spare parts

Only use replacement parts supplied by the manufacturer.

When ordering spare parts, specify the **stove type** and **serial number**, including the **colour index** (on the guarantee or identification plate), the **name of the part** and the **part number**.

**Example :** Belfort wood stove : “Belfort”, model : **134 04 11**, colour **Y**, top : **352136 EF**.

<b>A = 1340411 Y</b>	<b>C = 1340411 C</b>	<b>E = 1340411 D</b>	<b>G = 1340411 E</b>
<b>B = 1340411 J</b>	<b>D = 1340411 I</b>	<b>F = 1340411 P</b>	

N°	Code	Description	Type	A	B	C	D	E	F	G	Qty
1	100917	Cam pin 12x20 M7		A	B	C	D	E	F	G	01
2	105123	Knob . 191B.		A	B	C	D	E	F	G	01
3	105261	Firebrick . . . . . 328X70X35		A	B	C	D	E	F	G	01
4	105262	Firebrick . . . . . 207X207X35		A	B	C	D	E	F	G	02
5	110404	Hinge pin . . . . . 6X30		A	B	C	D	E	F	G	02
7	134258	Bushing . . . . .		A	B	C	D	E	F	G	01
8	181632	Adhesive rope . . . . .		A	B	C	D	E	F	G	0,90 m
9	163196	Descriptive plate . . . . .		A	B	C	D	E	F	G	01
10	166003	Spring. 11x15 . . . . .		A	B	C	D	E	F	G	01
11	181614	Ceramic rope . . . . . Ø 9,5mm		A	B	C	D	E	F	G	1,92 m
13	181615	Ceramic rope . . . . . Ø 12		A	B	C	D	E	F	G	1,35 m
14	188798	Glass . 267X205.		A	B	C	D	E	F	G	01
15	189103	Screw . 27x8x6		A	B	C	D	E	F	G	01
16	205368	Back panel . . . . .		A	B	C	D	E	F	G	01
17	222542	Flue baffle . . . . .		A	B	C	D	E	F	G	01
18	259015	Fixing plate . . . . .		A	B	C	D	E	F	G	04
19	262321	Heat shield . . . . .			B	C	D		F	G	01
20	300118 79.	Leg . . . . .			B						04
20	300118 EF	Leg . . . . .		A				E			04
20	300118 MK	Leg . . . . .				C					04
20	300118 MP	Leg . . . . .					D				04
20	300118 RH	Leg . . . . .							F		04
20	300118 RP	Leg . . . . .								G	04
21	300477	Base . . . . .		A	B	C	D	E	F	G	01
22	301526 66.	Door lock . . . . .						E			01
22	301526 79.	Door lock . . . . .			B						01
22	301526 EF	Door lock . . . . .		A							01
22	301526 MK	Door lock . . . . .				C					01
22	301526 MP	Door lock . . . . .					D				01
22	301526 RH	Door lock . . . . .							F		01
22	301526 RP	Door lock . . . . .								G	01
23	301742 79.	Air damper . . . . .			B						01
23	301742 EF	Air damper . . . . .		A				E			01
23	301742 MK	Air damper . . . . .				C					01
23	301742 MP	Air damper . . . . .					D				01
23	301742 RH	Air damper . . . . .							F		01
23	301742 RP	Air damper . . . . .								G	01
24	301901	Oscillating grate . . . . .		A	B	C	D	E	F	G	01
25	303718 79.	Blanking plate . . . . .			B						01
25	303718 EF	Blanking plate . . . . .		A				E			01
25	303718 MK	Blanking plate . . . . .				C					01
25	303718 MP	Blanking plate . . . . .					D				01
25	303718 RH	Blanking plate . . . . .							F		01
25	303718 RP	Blanking plate . . . . .								G	01
26	303860 79.	Flue collar . . . . .			B						01
26	303860 EF	Flue collar . . . . .		A				E			01
26	303860 MK	Flue collar . . . . .				C					01
26	303860 MP	Flue collar . . . . .					D				01
26	303860 RH	Flue collar . . . . .							F		01
26	303860 RP	Flue collar . . . . .								G	01
27	306268	Back wall . . . . .		A	B	C	D	E	F	G	01
28	307432	Fuel retainer . . . . .		A	B	C	D	E	F	G	01
29	309870 79.	Front plate . . . . .			B						01
29	309870 EF	Front plate . . . . .		A				E			01
29	309870 MK	Front plate . . . . .				C					01
29	309870 MP	Front plate . . . . .					D				01
29	309870 RH	Front plate . . . . .							F		01
29	309870 RP	Front plate . . . . .								G	01
30	309989 66.	Main door . . . . .						E			01
30	309989 79.	Main door . . . . .			B						01
30	309989 EF	Main door . . . . .		A							01

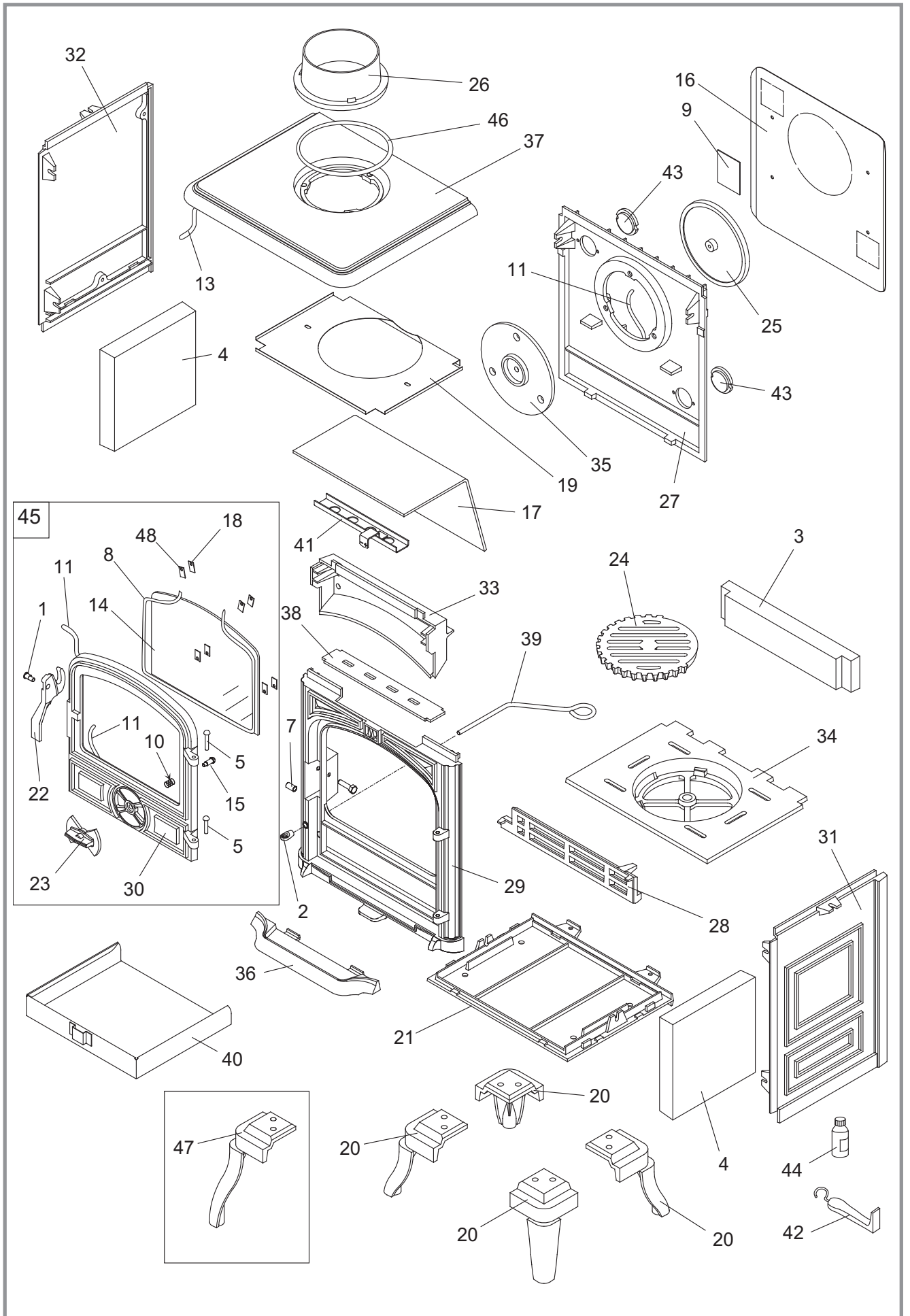


Figure 11 - Stove - exploded view

<b>A = 1340411 Y</b>	<b>C = 1340411 C</b>	<b>E = 1340411 D</b>	<b>G = 1340411 E</b>
<b>B = 1340411 J</b>	<b>D = 1340411 I</b>	<b>F = 1340411 P</b>	

N°	Code	Description	Type	A	B	C	D	E	F	G	Qty
30	309989	MK	Main door			C					01
30	309989	MP	Main door				D				01
30	309989	RH	Main door						F		01
30	309989	RP	Main door							G	01
31	310724	79	R. side panel		B						01
31	310724	EF	R. side panel	A				E			01
31	310724	MK	R. side panel			C					01
31	310724	MP	R. side panel				D				01
31	310724	RH	R. side panel						F		01
31	310724	RP	R. side panel							G	01
32	310822	79	L. side panel		B						01
32	310822	EF	L. side panel	A				E			01
32	310822	MK	L. side panel			C					01
32	310822	MP	L. side panel				D				01
32	310822	RH	L. side panel						F		01
32	310822	RP	L. side panel							G	01
33	315603		Air duct	A	B	C	D	E	F	G	01
34	319731		Grate support	A	B	C	D	E	F	G	01
35	327801		Clamp	A	B	C	D	E	F	G	01
36	327902	79	Ash-tray		B						01
36	327902	EF	Ash-tray	A				E			01
36	327902	MK	Ash-tray			C					01
36	327902	MP	Ash-tray				D				01
36	327902	RH	Ash-tray						F		01
36	327902	RP	Ash-tray							G	01
37	352136	79	Top plate		B						01
37	352136	EF	Top plate	A				E			01
37	352136	MK	Top plate			C					01
37	352136	MP	Top plate				D				01
37	352136	RH	Top plate						F		01
37	352136	RP	Top plate							G	01
38	237423		Reducing plate	A	B	C	D	E	F	G	01
39	458404		Rod	A	B	C	D	E	F	G	01
40	624040		Ash-pan.	A	B	C	D	E	F	G	01
41	613302	60	Air control flap	A	B	C	D	E	F	G	01
42	808001	ED	Hand tool	A	B	C	D	E	F	G	01
43	325304		Reducing plate	A	B	C	D	E	F	G	02
44	161027		Touch-up paint		B						01
44	161048		Touch-up paint				D				01
44	161032		Touch-up paint			C					01
44	161039		Touch-up paint						F		01
45	988839		Main door complete	A							01
45	988841		Main door complete		B						01
45	988882		Main door complete				D				01
45	988843		Main door complete			C					01
45	988889		Main door complete					E			01
45	988897		Main door complete						F		01
45	988840		Main door complete							G	01
46	181607		Ceramic rope	A	B	C	D	E	F	G	0,50 m
47	300122		High leg (optional)	A				E			04
48	142881		Gasket	A	B	C	D	E	F	G	04





## Guarantee certificate

### Legal guarantee

The specifications, dimensions and information shown on our documents are provided for information purposes only and under no circumstances are binding upon the vendor.

With the aim of constantly improving our equipment, all modifications considered as necessary by our departments may be made without notice.

The provisions of the present guarantee certificate are not excluding or limiting the owner of the equipment's rights, concerning the legal guarantee regarding faults or hidden vices which applies in all circumstances, in the conditions detailed in articles 1641 and following of the civil code, and in the country in which the equipment was purchased.

### Contractual guarantee

Our equipment is guaranteed against faults and hidden vices subject to the following conditions :

- 1) Installation and adjustment of the device by a professional installer.
- 2) Observance of the instructions provided in our technical documents and our installation/adjustment instructions.
- 3) The installation, use and maintenance of the device carried out in conformity with the applicable standards and legislation, and with the indications provided in the technical instructions accompanying the device.

This guarantee covers the replacement, in our factory, of parts recognised as being defective from the outset by our "Guarantee Inspection" Department. Carriage and

labour is at the user's cost. Moreover, if the repair or replacement of parts covered by the guarantee is found to be too costly vis-à-vis the price of the appliance, the decision to replace or repair the appliance will be taken by the vendor.

Our guarantee is for 2 (two) years for all appliances, with the exception of closed combustion fireplace and inserts for which our guarantee is 5 (five) years excluding the following:

- 1) Indicator lights, fuses, electrical elements and fans.
- 2) Parts subject to wear or in contact with high temperatures namely: soles and burner grates, bottom plates baffles, ash pans, paintwork and surface treatments for decorative parts. Also excluded from this guarantee are seals and windows.
- 3) Any damage which may result from the use of the appliance with a fuel other than that stipulated in our instructions.
- 4) Damage occurring to parts caused by elements outside the appliance (down draught, storm damage, damp, abnormal pressure or vacuum, heat shocks, etc...).
- 5) Damage to electrical parts caused by plugging in and using the appliance on a mains system, the voltage of which (measured at the entrance to the appliance) is 10% above or below the nominal voltage of 220 V.

### Exclusion of liability

In the case of a product manufactured at the client's request, under no circumstances may we, as a subcontractor, be considered liable vis-a-vis the client or third parties for defects arising from the installation or a design fault with the item in question.

☒ Name and address of the installer : \_\_\_\_\_

☎ Telephone : \_\_\_\_\_

☒ Name and address of the customer : \_\_\_\_\_

Date of installation : \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Model of the appliance :  134 04 11

Color :  Y  J  I  C  D  P  E

Serial number : \_\_\_\_\_

- This certificate has to be completed and kept carefully.  
In case of claims, send a copy of this to :

**BOUTIQUES DU FEU - FRANCO BELGE**

**Parc d'activités de la Verte Rue - Allée des Prêles - 59270 BAILLEUL - FRANCE**